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CENTRAL COAST PATENT AGENCY			POLLACK, MELVIN H	
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Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)			
	09/912,849	BASTURK, EROL			
Office Action Summary	Examiner	Art Unit			
	Melvin H Pollack	2141			
The MAILING DATE of this communicat Period for Reply	ion appears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communic. - If the period for reply specified above is less than thirty (30) da - If NO period for reply is specified above, the maximum statuto. - Failure to reply within the set or extended period for reply will, Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. 'CFR 1.136(a). In no event, however, may a ration. ys, a reply within the statutory minimum of thir ry period will apply and will expire SIX (6) MON by statute, cause the application to become AE	eply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed o	n <i>24 July 2001</i> .				
3) Since this application is in condition for	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ☐ Claim(s) 1-28 is/are pending in the appl 4a) Of the above claim(s) is/are v 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-28 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction	vithdrawn from consideration.	,			
Application Papers					
9) The specification is objected to by the Example 10) The drawing(s) filed on 24 July 2001 is/a Applicant may not request that any objection Replacement drawing sheet(s) including the	are: a)⊠ accepted or b)□ object on to the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).			
11)☐ The oath or declaration is objected to by	the Examiner. Note the attached	d Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for a a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International * See the attached detailed Office action for	cuments have been received. cuments have been received in A ne priority documents have been Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage			
Attachment(s)	_				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-93) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date 	948) Paper No(s 9/SB/08) 5) Notice of Ir	iummary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) <u>attached office action</u> .			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 3-8, 12-22, and 24-27 are rejected under 35 U.S.C. 102(e) as being anticipated by Basso et al. (6,370,119).
- 3. For claim 1, Basso teaches a control system (abstract) for controlling data flow over data paths on a data-packet-network according to specific destinations known in the network (col. 1, line 5 col. 3, line 10) comprising:
 - a. A network monitoring system (Fig. 1, #11; Fig. 2) for monitoring network performance parameters (Fig. 2, #27; col. 4, lines 8-45);
 - b. A network access system (Fig. 1) for accessing specific nodes in the network (col.
 3, line 40 col. 4, line 8); and
 - c. A control software executable on the network access system (Fig. 2, 27) for assigning and changing cost parameters at selected nodes in the network (Fig. 3, #31);
 - d. Characterized in that a network administrator monitoring the network or portion thereof uses the network access system and control software to assign and implement cost values at the selected nodes (col. 4, line 30 col. 5, line 50), the values associated individually with a specific destination or destinations (Fig. 3, #31), the values

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establishing forwarding costs to be incurred at the selected nodes, and link costs to be incurred per data link between the nodes (col. 4, line 60 – col. 5, line 50) such that manipulation of such cost value assignments enables load balancing of data traveling through the network (Fig. 3, #33 and 34).

- 4. For claim 3, Basso teaches that the network monitoring system is a computer station having network connectivity to the network or portion thereof being monitored (col. 4, lines 30-35).
- 5. For claim 4, Basso teaches that the network access system is a computer station having connectivity to the network or portion thereof to be accessed (col. 3, line 65 col. 4, line 5).
- 6. For claim 5, Basso teaches that the cost values are incorporated in a distributive algorithmic computation (col. 1, lines 40-55) to compute shortest path to the associated destination (col. 1, lines 20-30; col. 2, lines 40-60).
- 7. For claim 6, Basso teaches that the particular node assigned the particular cost values reports those values to all neighboring nodes up-line from the particular node (Fig. 5).
- 8. For claim 7, Basso teaches that the reported values are used in a distributive computation at the nodes to compute shortest path to a destination (Fig. 7).
- 9. Claim 8 is drawn to a method that effectively describes the activities undertaken by the hardware system as drawn in claims 1 and 6. It is well known in the art that the underlying method of a given system is functionally equivalent to said system. Therefore, since claims 1 and 6 are rejected, then claim 8 is also rejected for the reasons above. A teaching regarding the method/system equivalence is available upon request.

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10. Claim 12 drawn to a method that effectively describes the activities undertaken by the hardware system as drawn in claim 5. It is well known in the art that the underlying method of a given system is functionally equivalent to said system. Therefore, since claim 5 is rejected, then claim 12 is also rejected for the reasons above. A teaching regarding the method/system equivalence is available upon request.

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- 11. For claim 13, Basso teaches that at least one cost parameter is a forwarding cost through the affected node and is set to a value of infinity (Fig. 6).
- 12. For claim 14, Basso teaches that at least one cost parameter is an output link cost associated with the particular destination (Fig. 4).
- 13. Claim 15 is drawn to the limitations in claims 13 and 14. Therefore, since claims 13 and 14 are rejected, claim 15 is also rejected for the reasons above.
- 14. For claim 16, Basso teaches that installation is performed by software remotely (col. 5, lines 55 col. 6, line 42).
- 15. For claim 17, Basso teaches that reporting the at least one cost parameter to the neighboring nodes causes a complete bypass computation of the affected node particular to data routed to the stated destination (col. 8, lines 15-45).
- 16. For claim 18, Basso teaches that reporting the at least one cost parameter to the neighboring nodes causes a maximal utilization of the affected node particular to data routed to the stated destination (col. 11, lines 3-13).
- 17. For claim 19, Basso teaches that reporting the at least one cost parameter to the neighboring nodes causes a partial utilization of the affected node particular to data routed to the stated destination (col. 11, lines 3-13).

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18.

For claim 20, Basso teaches that the assignment and implementation of cost values at

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routing nodes is pre-configured by the network administrator (Fig. 3, #33) including provision

and implementation of a table or tables (col. 6, line 5; routing table) containing optional

forwarding costs per destination (Fig. 4) and at least one threshold value applicable to the

physical link conditions as may be detected by the node (Figs. 6 and 7) wherein detection by the

node of an occurrence of the at least one threshold value on any of the physical links triggers an

automated reassignment of an appropriate forwarding cost per selected destination using the

affected link from the table of optional forwarding costs (Fig. 5, #57 and #58).

19. For claim 21, Basso teaches that the threshold value equates to general traffic load

conditions over a physical link (col. 5, lines 40-45; col. 8, lines 15-45).

20. For claim 22, Basso teaches that the reassigned forwarding costs triggered by occurrence

of the threshold are computed along with other costs and advertised to neighbors pertinent to

data flows containing a destination label or labels responsible for the preponderance of the load

(Fig. 5).

21. Claim 24 is drawn to the limitations in claims 8, 20, and 22. Therefore, since claims 8,

20, and 22 are rejected, claim 24 is also rejected for the reasons above.

22. Claims 25 and 26 are drawn to the limitations in claims 9 and 21, respectively.

Therefore, since claims 9 and 21 are rejected, claims 25 and 26 are also rejected for the reasons

above.

23. For claim 27, Basso teaches that the steps are wholly automated and performed within the

selected node (Fig. 2, #27).

Claim Rejections - 35 USC § 103

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24. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 25. Claims 2 and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Basso as applied to claims 1, 8 above, and further in view of Zaumen et al. (6,658,479).
- 26. For claim 2, Basso does not expressly disclose that the data-packet-network (Fig. 1, #10) is the Internet network. Zaumen teaches a method (abstract) of determining routing costs and performing load balancing techniques (col. 1, line 10 col. 2, line 10) and further that the data-packet-network is the Internet network (col. 1, line 13). At the time the invention was made, one of ordinary skill in the art would have combined the two inventions by allowing Basso's invention to connect to the Internet for the purpose of allowing connections to third-party resources (col. 1, lines 50-57), i.e. to allow connections to network nodes on the Internet, such as previously established sources of digital data or utilization devices (Basso, col. 3, lines 65-67).
- Claim 9 is drawn to a method that effectively describes the activities undertaken by the hardware system as drawn in claim 2. It is well known in the art that the underlying method of a given system is functionally equivalent to said system. Therefore, since claim 2 is rejected, then claim 9 is also rejected for the reasons above. A teaching regarding the method/system equivalence is available upon request.
- 28. For claim 10, Basso does not expressly disclose that the node is a router accessed by a computer station having connectivity to the network or portion thereof to be accessed. Brasso does teach that certain network nodes have similar functionality (col. 3, lines 53-55). Zaumen

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teaches this limitation (col. 2, line 30 - col. 3, line 65; esp. col. 2, line 60). At the time the invention was made, one of ordinary skill in the art would have combined the two inventions because congestion at the routers is one of the main causes of large delays and hence should be

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taken into account (col. 1, lines 15-20 and 55-65).

29. For claim 11, Basso does not expressly disclose that the router is accessed as a result of need established through network monitoring. Zaumen teaches this limitation (col. 3, lines 35-

65). At the time the invention was made, one of ordinary skill in the art would have combined

the two inventions because congestion at the routers is one of the main causes of large delays and

hence should be taken into account (col. 1, lines 15-20 and 55-65).

30. Claims 23 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Basso as applied to claims 1 and 24 above, and further in view of Aviani et al. (6,789,125).

- For claim 23, Basso does not expressly disclose that the data-packet-network is internal to a data router and the nodes are computerized network cards connected together to form the internal network of the node. Aviani teaches a method (abstract) of load balancing (col. 1, line 15 col. 4, line 26) for which an embodiment may be the internal network (col. 14, line 65 col. 16, line 57). At the time the invention was made, one of ordinary skill in the art would have combined the two inventions to allow for greater efficiency within a router (col. 15, lines 10-25).
- 32. Claim 28 is drawn to the limitations in claim 23. Therefore, since claim 23 is rejected, claim 28 is also rejected for the reasons above.

Conclusion

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33. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Melvin H Pollack whose telephone number is (571) 272-3887.

The examiner can normally be reached on 8:00-4:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Rupal Dharia can be reached on (571) 272-3880. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

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MHP

10 November 2004

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